
BOOK REVIEW

Welding Metallurgy (Second edition)

By Sindo Kou

Wiley Interscience,

A John Wiley & Sons, Inc;
Publication.

461 pages-2003.

There are a limited number of books dealing exclusively in welding metallurgy. This is one of them. The book under review is the second edition and that itself speaks about the popularity of this book. The author is an authority in this field.

The book deals with this topic in a unique way in four different heads. Introduction-The fusion zone-The partially melted zone-The heat affected zone.

By this division the readers can appreciate the metallurgical phenomenon in each zone very

well and it also gives better clarity.

The first section deals with welding processes, heat flow, chemical / slag-metal reactions etc. which gives a broad understanding of welding metallurgy. Residual stresses and distortion has also been dealt separately.

The second section deals with solidification and related concepts like grain structure, phase transformation, solidification cracking.

The third section, which, is relatively, a short one, deals with topics like liquation cracking.

The last section dealing with HAZ talks about this zone in various materials. It also deals with welding parameters and their effects.

The book not only presents case studies but also provides a number of questions at the end of each chapter for understanding and applying the knowledge gained through that chapter. There are some excellent micrographs, charts, tables that will form a ready reference for practicing engineers.

With advances in welding metallurgy, a separate book can be brought out for each material detailing their welding metallurgy. However, this book presents in a concise form a number of details on the subject, which should form an interesting reading for every one in welding field.

By

R.RAVI



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